

# *Japan Patent Office*

## *Support Information*

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| L Number | Hits | Search Text   | DB  | Time stamp          |
|----------|------|---|---|---------------------|
| 1        | 11   | ((US-6323797-\$ or US-5642383-\$ or US-5566154-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-6169240-\$ or US-5347478-\$ or US-4679480-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.  | USPAT:<br>JPO   | 2003/07/20<br>07:33 |
| 3        | 0    | ((US-6323797-\$ or US-5642383-\$ or US-5566154-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-6169240-\$ or US-5347478-\$ or US-4679480-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.) and compress\$4 with (other or another or second) adj (format method type mode scheme technique manner way) | USPAT;<br>US-PGPUB;<br>EPO: JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/20<br>07:43 |
| 2        | 8    | ((US-6323797-\$ or US-5642383-\$ or US-5566154-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-6169240-\$ or US-5347478-\$ or US-4679480-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.) and compress\$4 with (formats methods types modes schemes techniques manners ways)                          | USPAT;<br>US-PGPUB;<br>EPO: JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/20<br>07:43 |
| 4        | 3    | ((US-6323797-\$ or US-5642383-\$ or US-5566154-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-6169240-\$ or US-5347478-\$ or US-4679480-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.) and compress\$4 with (formats methods types modes schemes techniques manners ways)                          | USPAT;<br>US-PGPUB;<br>EPO: JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/20<br>08:03 |
| 5        | 4    | ((US-6323797-\$ or US-5642383-\$ or US-5566154-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-6169240-\$ or US-5347478-\$ or US-4679480-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.) and low adj frequency   | USPAT;<br>US-PGPUB;<br>EPO: JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/20<br>08:04 |
| 6        | 53   | ("5886278" "6169240" "4876937" "5412152" "5792971" "3946504" "4805217" "5315057" "5347478" "5471009" "5499316" "5511000" "5611018" "5675709" "5713021" "5717818" "5734119" "5745650" "5763800" "5765129" "5774863" "5781696" "5809454" "5847303" "5873059").pn.   | USPAT;<br>US-PGPUB;<br>EPO: JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/20<br>08:04 |
| 7        | 6    | ((("5886278" "6169240" "4876937" "5412152" "5792971" "3946504" "4805217" "5315057" "5347478" "5471009" "5499316" "5511000" "5611018" "5675709" "5713021" "5717818" "5734119" "5745650" "5763800" "5765129" "5774863" "5781696" "5809454" "5847303" "5873059").pn.) and low adj frequency                                  | USPAT;<br>US-PGPUB;<br>EPO: JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/20<br>08:05 |
| 8        | 7    | ((("5886278" "6169240" "4876937" "5412152" "5792971" "3946504" "4805217" "5315057" "5347478" "5471009" "5499316" "5511000" "5611018" "5675709" "5713021" "5717818" "5734119" "5745650" "5763800" "5765129" "5774863" "5781696" "5809454" "5847303" "5873059").pn.) and (low adj frequency or lfo)                         | USPAT;<br>US-PGPUB;<br>EPO: JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/20<br>08:55 |

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|---|----|--|---|---------------------|
| 9 | 3  | ((US-6323797-\$ or US-5642383-\$ or US-5566154-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-6169240-\$ or US-5347478-\$ or US-4679480-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.) and tone adj (color or colour)   | USPAT;<br>US-PGPUB;<br>EPO: JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/20<br>08:55 |
| - | 51 | (compress\$4 with wave\$4 and expan\$4 with wave\$) and (frequency with (band-divi\$4 or band with divi\$4) )  | USPAT;<br>US-PGPUB;<br>EPO: JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/18<br>14:25 |
| - | 43 | (waveform or wave adj form) and (compress\$4 with wave\$4 and expan\$4 with wave\$) and (frequency with (band-divi\$4 or band with divi\$4) )  | USPAT;<br>US-PGPUB;<br>EPO: JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/18<br>13:55 |
| - | 8  | ((compress\$4 with wave\$4 and expan\$4 with wave\$) and (frequency with (band-divi\$4 or band with divi\$4) )) not ((waveform or wave adj form) and (compress\$4 with wave\$4 and expan\$4 with wave\$) and (frequency with (band-divi\$4 or band with divi\$4) ))  | USPAT;<br>US-PGPUB;<br>EPO: JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/18<br>13:56 |
| - | 1  | ((compress\$4 with wave\$4 and expan\$4 with wave\$) and (frequency with (band-divi\$4 or band with divi\$4) )) and (position or locat\$4) and frequency with (band-divi\$4 or band adj divi\$4) same wave\$4  | USPAT;<br>US-PGPUB;<br>EPO: JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/18<br>14:08 |
| - | 0  | ((compress\$4 with wave\$4 and expan\$4 with wave\$) and (frequency with (band-divi\$4 or band with divi\$4) )) and ((("5886278" "6169240" "4876937" "5412152" "5792971" "3946504" "4805217" "5315057" "5347478" "5471009" "5499316" "5511000" "5611018" "5675709" "5713021" "5717818" "5734119" "5745650" "5763800" "5765129" "5774863" "5781696" "5809454" "5847303" "5873059").pn.) | USPAT;<br>US-PGPUB;<br>EPO: JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/18<br>14:13 |
| - | 46 | ((compress\$4 with wave\$4 and expan\$4 with wave\$) and (frequency with (band-divi\$4 or band with divi\$4) )) and (@ad:=19991209 or @pr:=19991209 or @prad:=19991209 or @pd:=19991209)   | USPAT;<br>US-PGPUB;<br>EPO: JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/18<br>17:31 |
| - | 5  | ((compress\$4 with wave\$4 and expan\$4 with wave\$) and (frequency with (band-divi\$4 or band with divi\$4) )) not (((compress\$4 with wave\$4 and expan\$4 with wave\$) and (frequency with (band-divi\$4 or band with divi\$4) )) and (@ad:=19991209 or @pr:=19991209 or @prad:=19991209 or @pd:=19991209))   | USPAT;<br>US-PGPUB;<br>EPO: JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/18<br>14:29 |

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|   |     |  |   |                     |
|---|-----|--|---|---------------------|
| - | 45  | ((compress\$4 with wave\$4 and expan\$4 with wave\$) and (frequency with (band-divi\$4 or band with divi\$4))) and (@ad:=19991209 or @pr:=19991209 or @prad:=19991209 or @pd:=19991209)) and time  | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/18<br>17:31 |
| - | 35  | ((compress\$4 with wave\$4 and expan\$4 with wave\$) and (frequency with (band-divi\$4 or band with divi\$4))) and (@ad:=19991209 or @pr:=19991209 or @prad:=19991209 or @pd:=19991209)) and time and point  | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/18<br>17:31 |
| - | 22  | ((compress\$4 with wave\$4 and expan\$4 with wave\$) and (frequency with (band-divi\$4 or band with divi\$4))) and (@ad:=19991209 or @pr:=19991209 or @prad:=19991209 or @pd:=19991209)) and time with point   | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>08:49 |
| - | 2   | ((compress\$4 with wave\$4 and expan\$4 with wave\$) and (frequency with (band-divi\$4 or band with divi\$4))) and (@ad:=19991209 or @pr:=19991209 or @prad:=19991209 or @pd:=19991209)) and time adj point  | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/18<br>17:34 |
| - | 307 | waveform with (compression and expansion)  | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>07:14 |
| - | 303 | (waveform with (compression and expansion)) and ( @prad:=20010501 or @pd:=20010501 or @ad:=20010501 or @pd:=20010501)  | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>07:15 |
| - | 1   | ((waveform with (compression and expansion)) and ( @prad:=20010501 or @pd:=20010501 or @ad:=20010501 or @pd:=20010501)) and time adj point) and ((waveform with (compression and expansion)) and ( @prad:=20010501 or @pd:=20010501 or @ad:=20010501 or @pd:=20010501)) and band with divi\$4) | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>07:35 |
| - | 7   | (US-6323797-\$ or US-5642383-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.  | USPAT:<br>JPO   | 2003/07/19<br>07:39 |

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|   |    |   |   |                     |
|---|----|---|---|---------------------|
| - | 25 | ((waveform with (compression and expansion)) and ( @prad:=20010501 or @pd:=20010501 or @ad:=20010501 or @pd:=20010501)) and time adj point  | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>07:43 |
| - | 22 | ((waveform with (compression and expansion)) and ( @prad:=20010501 or @pd:=20010501 or @ad:=20010501 or @pd:=20010501)) and band with divi\$4   | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>07:48 |
| - | 4  | (waveform with (compression and expansion)) and (("5886278" "6169240" "4876937" "5412152" "5792971" "3946504" "4805217" "5315057" "5347478" "5471009" "5499316" "5511000" "5611018" "5675709" "5713021" "5717818" "5734119" "5745650" "5763800" "5765129" "5774863" "5781696" "5809454" "5847303" "5873059").pn.) | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>07:47 |
| - | 0  | ((("5886278" "6169240" "4876937" "5412152" "5792971" "3946504" "4805217" "5315057" "5347478" "5471009" "5499316" "5511000" "5611018" "5675709" "5713021" "5717818" "5734119" "5745650" "5763800" "5765129" "5774863" "5781696" "5809454" "5847303" "5873059").pn.) and band with divi\$4                          | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>07:48 |
| - | 9  | (US-6323797-\$ or US-5642383-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-5566154-\$ or US-6169240-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.   | USPAT:<br>JPO   | 2003/07/19<br>08:46 |
| - | 2  | ((US-6323797-\$ or US-5642383-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-5566154-\$ or US-6169240-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.) and time adj point  | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>08:46 |
| - | 21 | ((compress\$4 with wave\$4 and expan\$4 with wave\$) and (frequency with (band-divi\$4 or band with divi\$4))) and (@ad:=19991209 or @pr:=19991209 or @prad:=19991209 or @pd:=19991209)) and time with point and (locat\$4 or position\$4)  | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>08:56 |
| - | 10 | ((("5886278" "6169240" "4876937" "5412152" "5792971" "3946504" "4805217" "5315057" "5347478" "5471009" "5499316" "5511000" "5611018" "5675709" "5713021" "5717818" "5734119" "5745650" "5763800" "5765129" "5774863" "5781696" "5809454" "5847303" "5873059").pn.) and time adj point                             | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>09:09 |

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|   |    |   |   |                     |
|---|----|---|---|---------------------|
| - | 7  | ((("5886278" "6169240" "4876937" "5412152" "5792971" "3946504" "4805217" "5315057" "5347478" "5471009" "5499316" "5511000" "5611018" "5675709" "5713021" "5717818" "5734119" "5745650" "5763800" "5765129" "5774863" "5781696" "5809454" "5847303" "5873059").pn.) and time adj point) and (position or location)   | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>09:13 |
| - | 5  | ((("5886278" "6169240" "4876937" "5412152" "5792971" "3946504" "4805217" "5315057" "5347478" "5471009" "5499316" "5511000" "5611018" "5675709" "5713021" "5717818" "5734119" "5745650" "5763800" "5765129" "5774863" "5781696" "5809454" "5847303" "5873059").pn.) and time adj point) and (position or location) with time   | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>09:35 |
| - | 0  | ((("5886278" "6169240" "4876937" "5412152" "5792971" "3946504" "4805217" "5315057" "5347478" "5471009" "5499316" "5511000" "5611018" "5675709" "5713021" "5717818" "5734119" "5745650" "5763800" "5765129" "5774863" "5781696" "5809454" "5847303" "5873059").pn.) and time adj point) and superimpos\$4  | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>09:36 |
| - | 1  | ((("5886278" "6169240" "4876937" "5412152" "5792971" "3946504" "4805217" "5315057" "5347478" "5471009" "5499316" "5511000" "5611018" "5675709" "5713021" "5717818" "5734119" "5745650" "5763800" "5765129" "5774863" "5781696" "5809454" "5847303" "5873059").pn.) and superimpos\$4  | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>09:36 |
| - | 2  | ((("5886278" "6169240" "4876937" "5412152" "5792971" "3946504" "4805217" "5315057" "5347478" "5471009" "5499316" "5511000" "5611018" "5675709" "5713021" "5717818" "5734119" "5745650" "5763800" "5765129" "5774863" "5781696" "5809454" "5847303" "5873059").pn.) and time adj point) and (combin\$4 or merg\$4 or overlay\$4) with waveform   | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>10:39 |
| - | 10 | (US-6323797-\$ or US-5642383-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-5566154-\$ or US-6169240-\$ or US-5347478-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.  | USPAT:<br>JPO   | 2003/07/19<br>09:58 |
| - | 2  | ((("5886278" "6169240" "4876937" "5412152" "5792971" "3946504" "4805217" "5315057" "5347478" "5471009" "5499316" "5511000" "5611018" "5675709" "5713021" "5717818" "5734119" "5745650" "5763800" "5765129" "5774863" "5781696" "5809454" "5847303" "5873059").pn.) and time adj point) and (combin\$4 or merg\$4 or overlay\$4) with waveform) and (repeat\$4 or recursiv\$4 or repetitiv\$4) | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>09:59 |
| - | 5  | ((("5886278" "6169240" "4876937" "5412152" "5792971" "3946504" "4805217" "5315057" "5347478" "5471009" "5499316" "5511000" "5611018" "5675709" "5713021" "5717818" "5734119" "5745650" "5763800" "5765129" "5774863" "5781696" "5809454" "5847303" "5873059").pn.) and time adj point) and (sequen\$6 or join\$4 or combin\$4 or concatenat\$4) with waveform                                 | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>10:43 |

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| - | 0  | ((("5886278" "6169240" "4876937" "5412152" "5792971" "3946504" "4805217" "5315057" "5347478" "5471009" "5499316" "5511000" "5611018" "5675709" "5713021" "5717818" "5734119" "5745650" "5763800" "5765129" "5774863" "5781696" "5809454" "5847303" "5873059").pn.) and time adj point) and (sequen\$6 or join\$4 or combin\$4 or concatenat\$4) with waveform) and zero-crossing   | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>10:44 |
| - | 2  | ((("5886278" "6169240" "4876937" "5412152" "5792971" "3946504" "4805217" "5315057" "5347478" "5471009" "5499316" "5511000" "5611018" "5675709" "5713021" "5717818" "5734119" "5745650" "5763800" "5765129" "5774863" "5781696" "5809454" "5847303" "5873059").pn.) and zero-crossing   | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>10:45 |
| - | 1  | ((("5886278" "6169240" "4876937" "5412152" "5792971" "3946504" "4805217" "5315057" "5347478" "5471009" "5499316" "5511000" "5611018" "5675709" "5713021" "5717818" "5734119" "5745650" "5763800" "5765129" "5774863" "5781696" "5809454" "5847303" "5873059").pn.) and zero-crossing with waveform   | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>11:03 |
| - | 1  | ((("5886278" "6169240" "4876937" "5412152" "5792971" "3946504" "4805217" "5315057" "5347478" "5471009" "5499316" "5511000" "5611018" "5675709" "5713021" "5717818" "5734119" "5745650" "5763800" "5765129" "5774863" "5781696" "5809454" "5847303" "5873059").pn.) and read-out adj speed  | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>11:28 |
| - | 21 | ((((US-6323797-\$ or US-5642383-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-5566154-\$ or US-6169240-\$ or US-5347478-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.) or ((("5886278" "6169240" "4876937" "5412152" "5792971" "3946504" "4805217" "5315057" "5347478" "5471009" "5499316" "5511000" "5611018" "5675709" "5713021" "5717818" "5734119" "5745650" "5763800" "5765129" "5774863" "5781696" "5809454" "5847303" "5873059").pn.) and (3rd or third)  | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>11:04 |
| - | 7  | ((((US-6323797-\$ or US-5642383-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-5566154-\$ or US-6169240-\$ or US-5347478-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.) or ((("5886278" "6169240" "4876937" "5412152" "5792971" "3946504" "4805217" "5315057" "5347478" "5471009" "5499316" "5511000" "5611018" "5675709" "5713021" "5717818" "5734119" "5745650" "5763800" "5765129" "5774863" "5781696" "5809454" "5847303" "5873059").pn.) and (3rd or third) same compress\$4                       | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>11:04 |
| - | 14 | ((((US-6323797-\$ or US-5642383-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-5566154-\$ or US-6169240-\$ or US-5347478-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.) or ((("5886278" "6169240" "4876937" "5412152" "5792971" "3946504" "4805217" "5315057" "5347478" "5471009" "5499316" "5511000" "5611018" "5675709" "5713021" "5717818" "5734119" "5745650" "5763800" "5765129" "5774863" "5781696" "5809454" "5847303" "5873059").pn.) and (3rd or third) same (method or compress\$4 or format) | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>11:04 |

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|---|----|---|---|---------------------|
| - | 15 | ((US-6323797-\$ or US-5642383-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-5566154-\$ or US-6169240-\$ or US-5347478-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.) or ((("5886278" "6169240" "4876937" "5412152" "5792971" "3946504" "4805217" "5315057" "5347478" "5471009" "5499316" "5511000" "5611018" "5675709" "5713021" "5717818" "5734119" "5745650" "5763800" "5765129" "5774863" "5781696" "5809454" "5847303" "5873059").pn.)) and (3rd or third) same (method or technique or type compress\$4 or format) | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>11:05 |
| - | 1  | ((("5886278" "6169240" "4876937" "5412152" "5792971" "3946504" "4805217" "5315057" "5347478" "5471009" "5499316" "5511000" "5611018" "5675709" "5713021" "5717818" "5734119" "5745650" "5763800" "5765129" "5774863" "5781696" "5809454" "5847303" "5873059").pn.) and read-out adj speed) and pitch  | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>11:30 |
| - | 37 | pitch with read adj out adj speed   | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>11:33 |
| - | 11 | (US-6323797-\$ or US-5642383-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-5566154-\$ or US-6169240-\$ or US-5347478-\$ or US-4679480-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.   | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>12:39 |
| - | 7  | ((US-6323797-\$ or US-5642383-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-5566154-\$ or US-6169240-\$ or US-5347478-\$ or US-4679480-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.) and (identical or "same" or similar or equal) with time   | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>12:40 |
| - | 7  | ((US-6323797-\$ or US-5642383-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-5566154-\$ or US-6169240-\$ or US-5347478-\$ or US-4679480-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.) and (identical or "same" or similar or equivalent or equal) with time   | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>12:56 |
| - | 3  | ((US-6323797-\$ or US-5642383-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-5566154-\$ or US-6169240-\$ or US-5347478-\$ or US-4679480-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.) and (divid\$4 with frequency with band) with waveform   | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>12:57 |
| - | 3  | ((US-6323797-\$ or US-5642383-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-5566154-\$ or US-6169240-\$ or US-5347478-\$ or US-4679480-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.) and (divid\$4 with frequency with band) same waveform   | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>12:58 |

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|---|---|---|---|---------------------|
| - | 7 | ((US-6323797-\$ or US-5642383-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-5566154-\$ or US-6169240-\$ or US-5347478-\$ or US-4679480-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.) and (divid\$4 with frequency with band) and waveform                                      | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>13:00 |
| - | 8 | ((US-6323797-\$ or US-5642383-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-5566154-\$ or US-6169240-\$ or US-5347478-\$ or US-4679480-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.) and (divid\$4 with frequency with band)   | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>13:02 |
| - | 7 | ((US-6323797-\$ or US-5642383-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-5566154-\$ or US-6169240-\$ or US-5347478-\$ or US-4679480-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.) and (divid\$4 same frequency with band) and waveform                                      | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>13:00 |
| - | 8 | ((US-6323797-\$ or US-5642383-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-5566154-\$ or US-6169240-\$ or US-5347478-\$ or US-4679480-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.) and (divid\$4 and frequency and band)   | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>13:02 |
| - | 8 | ((US-6323797-\$ or US-5642383-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-5566154-\$ or US-6169240-\$ or US-5347478-\$ or US-4679480-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.) and frequency and band  | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>13:02 |
| - | 8 | ((US-6323797-\$ or US-5642383-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-5566154-\$ or US-6169240-\$ or US-5347478-\$ or US-4679480-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.) and band with divid\$4  | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>13:02 |
| - | 4 | ((US-6323797-\$ or US-5642383-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-5566154-\$ or US-6169240-\$ or US-5347478-\$ or US-4679480-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.) and multipl\$4 same ( waveform time window) and filter\$4 and sum\$4                      | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>13:33 |
| - | 1 | ((US-6323797-\$ or US-5642383-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-5566154-\$ or US-6169240-\$ or US-5347478-\$ or US-4679480-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.) and multipl\$4 same ( waveform time window) and filter\$4 and sum\$4 and time with window | USPAT:<br>US-PGPUB:<br>EPO: JPO:<br>DERWENT:<br>IBM_TDB | 2003/07/19<br>13:41 |

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|---|---|--|---|---------------------|
| - | 1 | ((US-6323797-\$ or US-5642383-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-5566154-\$ or US-6169240-\$ or US-5347478-\$ or US-4679480-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.) and multipl\$4 same window                           | USPAT;<br>US-PGPUB;<br>EPO: JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/19<br>13:50 |
| - | 0 | ((US-6323797-\$ or US-5642383-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-5566154-\$ or US-6169240-\$ or US-5347478-\$ or US-4679480-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.) and multipl\$4 same window same time                 | USPAT;<br>US-PGPUB;<br>EPO: JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/19<br>13:50 |
| - | 1 | ((US-6323797-\$ or US-5642383-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-5566154-\$ or US-6169240-\$ or US-5347478-\$ or US-4679480-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.) and multipl\$4 same window and time                  | USPAT;<br>US-PGPUB;<br>EPO: JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/19<br>13:51 |
| - | 3 | ((US-6323797-\$ or US-5642383-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-5566154-\$ or US-6169240-\$ or US-5347478-\$ or US-4679480-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.) and window same time                                 | USPAT;<br>US-PGPUB;<br>EPO: JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/19<br>14:04 |
| - | 2 | ((((US-6323797-\$ or US-5642383-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-5566154-\$ or US-6169240-\$ or US-5347478-\$ or US-4679480-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.) and window same time) and filter\$4 with frequency | USPAT;<br>US-PGPUB;<br>EPO: JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/19<br>14:06 |
| - | 6 | ((US-6323797-\$ or US-5642383-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-5566154-\$ or US-6169240-\$ or US-5347478-\$ or US-4679480-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.) and filter\$4 with frequency                         | USPAT;<br>US-PGPUB;<br>EPO: JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/19<br>14:13 |
| - | 0 | ((US-6323797-\$ or US-5642383-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-5566154-\$ or US-6169240-\$ or US-5347478-\$ or US-4679480-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.) and summing  | USPAT;<br>US-PGPUB;<br>EPO: JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/19<br>14:13 |
| - | 5 | ((US-6323797-\$ or US-5642383-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-5566154-\$ or US-6169240-\$ or US-5347478-\$ or US-4679480-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.) and sum  | USPAT;<br>US-PGPUB;<br>EPO: JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/19<br>14:13 |

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|---|---|--|---|---------------------|
| - | 8 | ((US-6323797-\$ or US-5642383-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-5566154-\$ or US-6169240-\$ or US-5347478-\$ or US-4679480-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.) and sum\$4               | USPAT;<br>US-PGPUB;<br>EPO: JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/19<br>14:13 |
| - | 2 | ((US-6323797-\$ or US-5642383-\$ or US-4430754-\$ or US-4025723-\$ or US-3975763-\$ or US-5566154-\$ or US-6169240-\$ or US-5347478-\$ or US-4679480-\$).did. or (JP-2001255876-\$ or JP-2000075899-\$).did.) and sum\$4 with waveform | USPAT;<br>US-PGPUB;<br>EPO: JPO;<br>DERWENT;<br>IBM_TDB | 2003/07/19<br>14:14 |